

**METHODS, SYSTEMS, AND KITS
FOR LUNG VOLUME REDUCTION**

ABSTRACT OF THE DISCLOSURE

Lung volume reduction is performed in a minimally invasive manner by isolating a lung tissue segment, optionally reducing gas flow obstructions within the segment, and aspirating the segment to cause the segment to at least partially collapse. Further optionally, external pressure may be applied on the segment to assist in complete collapse. Reduction of gas flow obstructions may be achieved in a variety of ways, including over inflation of the lung, introduction of mucolytic or dilation agents, application of vibrational energy, induction of absorption atelectasis, or the like. Optionally, diagnostic procedures on the isolated lung segment may be performed, typically using the same isolation/access catheter.

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